

OLYMPUS OPTICAL CO., LTD.

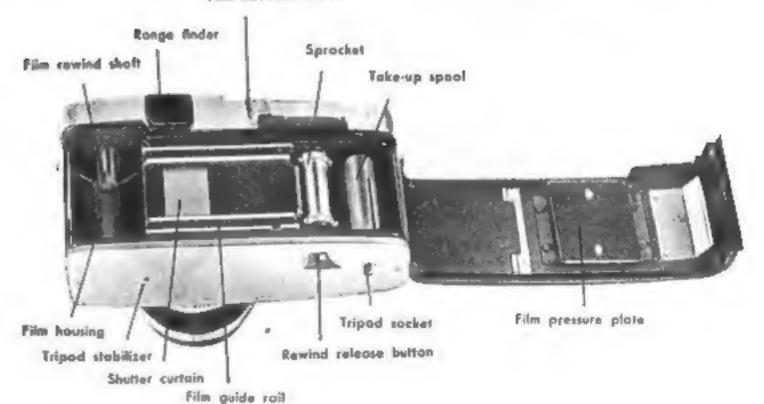


The Olympus Pen F is the newest of the popular "Olympus Pen" series.

This single-lens reflex camera features lightness of weight, maximum flexibility and ease of operation.

There are several new features, which make it important for you to read this instruction booklet carefully before using your Olympus Pen F. Please lift this over-leaf.

Film advance lever







SPECIFICATIONS

Film size , 24×18 mm ("Pen" size) (15/16×11/16 in.)

Lens : Standard lens : Il Zuiko Auto S, F 1.8 f = 38 mm {11/2 in.}

Lons mount | Bayonet type (Fen mount)

Shutter : Olympus rotory metal focal-plane shutter with single-pivot, non-

revolving shutter dial. Synchronized for electronic flosh use. B.

1-1/500 sec., equally collbrated. X setting.

Finder | Through-the-lens type. Image magnification 0.8 X. Forreprism

system with freshed lens.

Focus adjustment: Specially computed facusing lens with 5 X magnifier

Mirror : Horizontally revalving, quick return.

film advancing . Double action with 90" self-cooking lever. Double exposure

impossible. Self resetting type film counter.

Rewinding | Crank system with rewind release button.

Rear cover . Hinge system with release built into rewind knob.

Size | Width: 5 in. (127 mm)

Height: 23/4 in. (69.5 mm)

Depth : 21/2 in. [62.5 mm] with standard lens

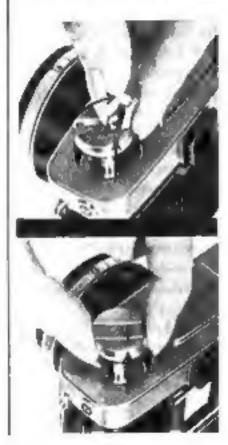
11/4 ML (32.5 mm) body only

Weight , 1 lb. 3 oz. (560 gr.) with standard lens

THE BUT THE WISH COVE

2

Open the over-leaf of the inside front cover of this booklet. Numbered parts correspond with the sections on the following pages.



Lift the film rewind handle and pull the knob upward until it stops once. Pull the knob again, this time with more pressure, and the back will open automatically.

To close, press the back cover until it snaps tight. The rewind lines may be left as it is.

To rewind film, turn the handle in the direction indicated by the arrow. (clockwise)

film advancing is done by a double action system. Place your themb on the lever and move it to the right until it stops. Allow the lever to return to its original position, and then advance it again. If the film is not fully advanced the shutter cannot be released. Also, if the shutter is not released, the film cunnot be advanced.





Film Advance Lever

This double oction lever does the follow-

things :

- Advances single fromes of film.
- 2. Advances the film counter.
- 3. Prayets the shuller.
- 4. Swings the mirror into position.
- 5. Presels the automatic operium system.



The film counter starts from "5" and continues through 72, counting by 4s. i.e. 5, 1, 4, 8, 12, 16, etc.

Single frames are advanced by the film advance lever but, due to size, this is not indicated on the film counter.

The orange colored arrow shows the number of frames exposed.

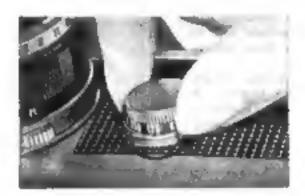
When the reor cover is opened, the film counter returns to "S" automatically.



When holding the camera the index finger rests naturally on the shutter release button. The Fen F is rectangular in shape so that the shutter release button may be activated with only slight pressure from the flat part of this finger.

The threaded hale inside the button is for ottacking a cable release or timer.





To set shuller speed, turn the dial until the corresponding number is aligned with the red dat. B (bulb)—In this setting the shuller leaves are opened when the shuller release button is pressed, and will remain open until it is released. B is used when exposures of longer than one second are desired. The numbers I through 500 studd for fraction of a second. I. e. 1—1 sec., 2—1, sec., etc. through 500—1 500 sec.

For the correct speed, ensure that the number is perfectly matched with the red dot. The dial may be turned in either direction. Speed may be set either before or after advancing the film.



Rolary Metal Focal Plane Shutter

The newly designed shutter on the Pen F is completely different from other types of focal plane shutters. It contains a semi-circular titation screen (50 mm diameter) which rotates in a clackwise direction at a distance of 1.6 mm from the film.

This shutter works so rapidly that regardless of shutter speed it never fails to open completely, making it possible for an electronic flash to be synchronized with it at speeds of from 1 to 1/500 at a second. [With other focal plane shutters this is impossible when speeds exceed 1/60 th of a second.]

The property of the second

Boyonet-mounted temes for the Pen F are easily removed and replaced. On the base of the lem there are two buttons, one of which is marked with a red L (lack). This is the lens release button.

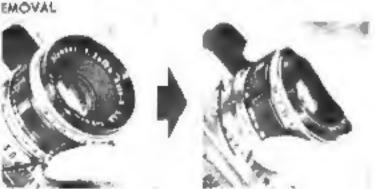
First, hold the camero in the left hand and grosp the base of the lens with the right hand. Then press the lens release button with the thumb of the right hand and turn the lens in a clackwise direction until it stops. The lens is removed by pulling it away from the camera body.

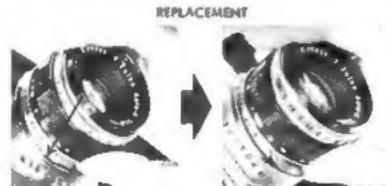
To remount the lens, insert it carefully into the body, aligning the red mark (3) on the lens with the red dat on the body. Turn the lens in a counter-clackwise direction until the lens release button (L) returns with a click.

If is not necessary to move the lens release button when mounting the lens.

It locks into place automatically.







PREVIEW BUTTON I VOTE TOTAL COLLECTION

The unmarked button on the base of the lens in collect the "pre-view button". Even after the aperture on the Pen F is set, it will not close down III this opening unless the shutter release button is pressed. At all other times the aperture is wide open. This completely automatic operture system allows facusing and framing at full brightness.



The pre-view button on the Pen F closes the pre-set opening, making it possible to see the subject through the viewfinder with the same brightness as that of the operture setting. (See Section 11, Depth of Facus Scale.) This ensures perfect focusing of both subject and background.

- I n n n n

The ring which is around the top of the lens body is the lens operture scale ring. It is numbered 1.8, 2, 2.8, 4, 5.6, 8, 11 and 16. The larger numbers indicate smaller operture openings, and the converse. Turn this ring and align its numbers with the black dot to change the operture opening. Unlike the shutter speed, the operture may be set between numbers.

9 means are

While viewing through the finder, turn the lens distance scale ring in either direction until the subject is most clearly visible. The shutter release button may then be pressed. Clear, sharp photography.

The lens distance scale ring has scales in two different colors; while (meters) and yellow (feet). These indicate distance between the camera and the subject in facus.



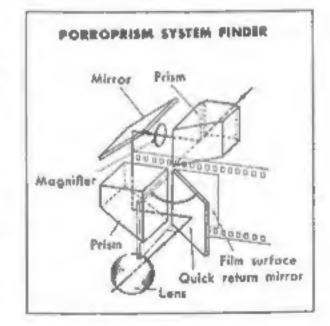


The main feature of the Pen F finder is that the subject viewed through the finder and the photograph are exactly the same. i. e. The "photograph" in seen through the finder.

Even when the distance to the subject is short, or a telephoto lens is used, the subject is perfectly fromed in the viewfinder. Not only is it possible to capture the feeling till distance and background, but the full effect of color is assured.

Directly behind the lens is a rectangular-shaped mirror which swings harizontally on a pivat. The left side of the mirror is a focal plane. Light enters through the lens, is reflected by the mirror and forms on image on a focal plane through the Fresnel Lens. This image passes through both prisms and a 5 X magnifier.

Magnification of the finder is 0.8 times with the standard lens, which has a focal length of f=38 millimeters.



Depth of facus changes, depending upon the lens facusing distance and aperture opening. When this range is broad, the depth of facus is said in the "deep". To make the depther of facus deeper, either lengthen the lens facusing distance or reduce the size in the aperture opening. A third method is to facus upon an object which is further from the comera than the subject.

Using Depth of Fecus

focus".

71 Par 147 Par 141

Depth of facus can be adjusted by making the aperture opening larger or smaller. Both near and far objects can be brought into facus by reducing the operture opening. For partrait photography the subject can be emphasized by enlarging the operture opening to take the background out of facus.



Reading the Depth of Focus Scale





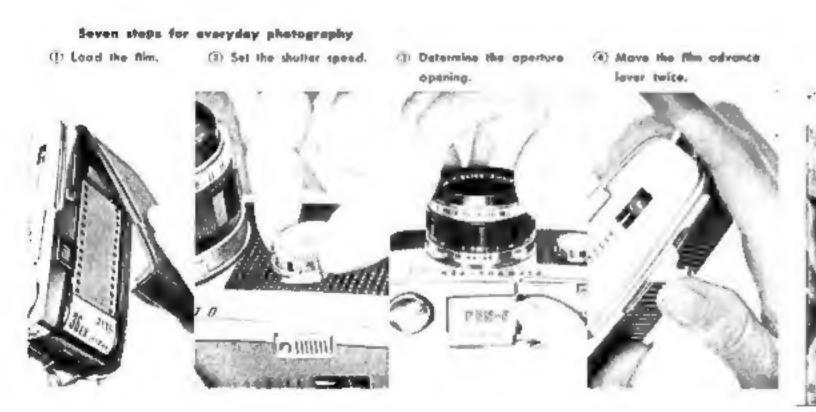
The depth of facus is indicated by a set numbers; 4, 8 and 16; which correspond III aparture openings and are written on each side of the red mark (8). Reading the depth III facus is explained by the following example: The distance between the comera and the subject is 1.5 feet and the aperture setting is 8. Depth of facus is indicated between 8 to the left of the mark (1.1 ft.) and 8 to the right of the mark (1.7 ft.).

The focused range can also be determined by pressing the pre-view botton while viewing through the finder, or explained in Section 7.



This is the infra-red indicator. To use infra-red sensitive film, not the facus tilst, and move the depth of facus ring to the "R" mark. Infra-red photography requires a red filter.

Now you are ready to use the Olympus Pen F. But, before taking pictures, try every part again.





When composing
the picture is is
helpful to test the
effect of the operturn opening by
pressing the preview button.

FILM SIZE OF THE PEN F



The Pen F uses standard size 35 mm (135) film, which is available anywhere.

The pictures are "Pen" size $(15/16 \times 11/16 \text{ inches})$, helf of the 35 millimeter size $(13/8 \times 17/8 \text{ inches})$.

This size is very economical, especially for colored slides, because 72 pictures can be taken on a roll of 36 and 40 on a roll of 20.

(Pen Size)

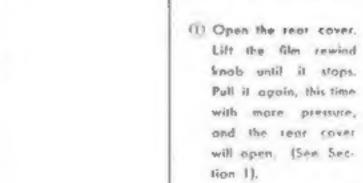


(35 mm Size)



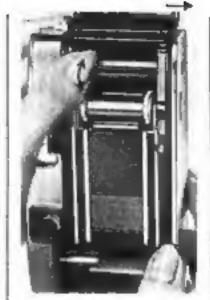
LOADING THE FILM

Use a roll of 35 mm (135) film with either 20 or 36 exposures.



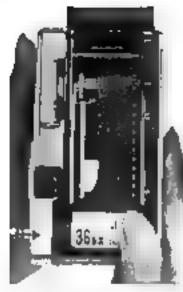


shown above and lyin the film rewind shall until the stat on the shall is on top. (The rewind shall will turn freely.)



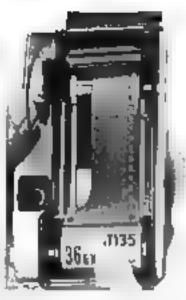


tella, insert the end of the film into the dot and move it to the right edge as shown.

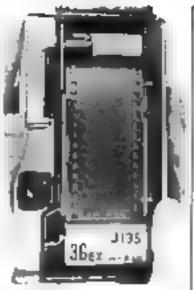


It has the film counting into the film housing and push the rewind knots in. If the knots cannot be poshed in completely, twist if back and forth slightly, while maintaining

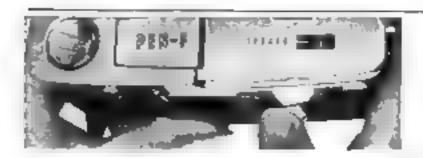
pressure.



With the thomb of the right hand, wind the film forward lever, making sure that the perforation on the right-hand side of the film meshes perfectly with the sprocket.



a Advance the film until the perfections on both sides much with their corresponding approchets. [The shulter must be released at every second movement of the lever.] Be sure that the film is placed coude the guide rails (shiny roots at the matrene sides).





- (1) Close the back cover To take up stack in the film, lift the film rewind handle and turn it in a counterclockwise direction until it becomes tight.
- (*) Wind the film advance lever (pressing the shutter release button every record time) until the film counter moves to 1. If the film rewind knoth turns during this operation, the film is advancing correctly.

 (the comerc is now ready to take

(the comercy is now ready to take pictures.)

(NOTE)

- Film loading should never be done in direct sunlight. Darker places are preferable.
- 2 If the film is londed improperly it may be impossible to take pictures. Be correlat when loading the film.

FILM REWINDING

When a roll of film is completely exposed, cover the lens with the cop and rewind the film. The film is completely exposed when the film counter indicates either 40 or 72, depending upon the length at film used.

mera body.

Press the rewind rend Lift the film rewind handle and I full out the films awind it lease button on the intuin it in a clackwise direction. I knob and remove the bottom of the car This handle is tight while the film. film, keeping it away : is being rewound, but when from direct sunlight, the end of the film leaves the loke-up reel the handle will become looks.





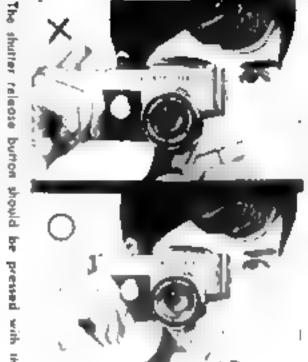
When the film is completely exposed the film advance lever becomes tight during its action and film cannot IIII advanced. Film is then rewayed in the monner described above.

(NOTE)

The film rewind knob should not be pulled out before the film is complete. ly rewound. If the knob is pulled out by mistake, the back cover may open, exposing the film.

When using a triped it is advisable to employ a cable release.





Use althor flosh builts or an electronic flush under conditions of poor light, or darkness. Even in daylight photography, criticial light can be used to eliminate shadows caused by evalight coming from behind the subject, or

when the background is expansive.

The Pan F, different from ordinary fotal plane shutter cameros, can synchronize an electronic flosh at any shutter speed from 1 to 1,500 th of a second. This special feature makes it possible to use an electronic flash under daylight conditions.

ATTACHING THE FLASH UNIT

The black calared eyepiece of the viewfinder is slightly raised from the camero body, leaving space # slide in the bracket which holds the flash unit. This bracket is an optional accessory.

The plug of the flash unit goes into the synchronized socket on the side of the camery body. This is the X socket.

TYPES OF ARTIFICIAL LIGHT

Following are the three types of artificaint light:

- (u) Electronic flosh
- M Bulb)

The amount of light emitted by each different bulb is indicated by guide numbers which are printed on their boxes. The opening is determined by dividing the golde number by the distance to the subject. This is explained in more detail by the following example: ASA of the film is 100, shutter speed 1/60 rec., distance 5 meters and the bulb guide number is 40. Dividing the guide number of 40 by the distance of 5 gives the resultant operture opening, 8.

THINGS TO NOTE BEFORE PRESSING THE SHUTTER RELEASE

- (1) Hold the camera firmly. (See the next gage.)
- (2) Press the shutter release button lightly.
- Due to the smallness of the film size it is suggested that the camera be as close to the sebject as possible in order to fill the frame completely.
- When using slow shutter speeds (1/30 −1 sec. and the camera should be placed.) on a tripod or other fixed object.
- (i) Good enlargements depend entirely upon good film development. The exposed film should be developed carefully.

HOLD THE CAMERA NATURALLY AND FIRMLY

Due to the small size of film used in the Pen F the comuta should not be moved when pictures are taken. Movement will show up in enlargements. The camera may be held either horizontally or vertically, depending upon aptimum composure of the picture.

When the camera is held horizontally the allows should be steaded against the body.

When the camera is held vertically, the left hand is used to steady it and the right elbow is braced against the body.





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Standard timers, of the type shown above, are allocked to the shutter release button of the Pen F. Place the camera and aperture, and wind the self limer. The shutter will be released approximately erable seconds after the timer is activated.

(NOTE) Attaching and setting of the self timer should be done before advancing the film.



- When the lens is removed be coreful not to put fingerprints on the mirror.
- The shuller screen is made from extremely thin metal and should not ill tauched. The shutter should its left in on open position (8) when the camero is not used for a long time.

- Do not leave the comera is dusty or damp places. Store it in a dry place with good circulation of air.
- Do not leave fingerprints on the lens. Wipe them off inmediately with a clean piece of colton cloth. If fingerprints are left on the lins for some time they are difficult to ramove.

NOTE: It is not necessary to lubricate any part of comero.







Open the special link with the thumb and index finger and put it through the eye which protrudes from the side of the comero.

Open the hook at the end of the corrying strop and atlack it to the link.

Put the camera into its leather case and lighten it by turning the knob which is located an the bottom and the case.

The front cover of the leather case can be removed by uninopping it, or left on the bottom of the case where it pivats.







ZUIKO AUTO ZOOM LENS F 3.5 f = 50-90 mm

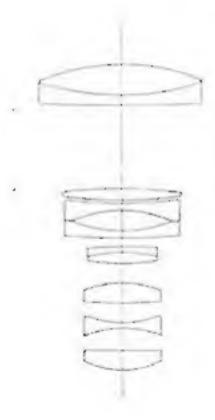
THE REPECT OF LENS REPLACEMENT

Various effects can be obtained by using dif-

Interchangeable lenses include zoom, wide ungle und telephoto lenses. The most versatile of these is the zoom lens, because it allows the photographer in change the size of his subject freely.

Weights of Pen size lenses are one third of standard 35 mm lenses and size only one half, making them easy to carry.





ZUIKO AUTO ZOOM LENS F3.5 f= 20~ 90 mm

The main features III zoom lenses are (1) a single lens can be used in place of many different tenses between 50 and 10 millimeters, and (2) effective composure may be made before the picture is taken to eliminate trimming. The special feature of the Zuika Auto Zoom Lens is that, unlike other zoom tenses, it remains in focus throughout the complete zooming range. Its resolving power is extremely high.

E ZUIKO AUTO-T LENS F3.5 f=100mm

INTERCHANGEABLE LENSES AVAILABLE FOR THE PEN F



Like the zoom, this 100 mm Pen-size telephoto lens is small in size and light in weight.

Standard 35 mm cameras with telescopic leases are unwieldy, but this smaller size makes it easy to work with—to increase the joy of telescopic photography.

There are twenty interchangeable lenses for the Pen F, a representative number of which are listed at the right.

-	F Zylko		Auto- S	F1.8 f = 38 mm	f = 55 mm				
	G	Zuika	Auto- 5	F 1.4 7=40 mm	₱= 58 mm				
	Ε	Zviko	Auto-W	F 4.0 f = 25 mm	f = 35 mm				
	G	Zuiko	Auto- T	F 1.5 [= 60 mm	f 85 mm				
	6	Zulko	Auto- T	F 3.5 (= 100 mm	(=143 mm				

F 4.0 (=150 mm

App. 35 mm Equivalent

f = 210 mm

PEN F ACCESSORIES

Special CdS meter

Filters

UV + Y2 + 1A - R

Hoods for interchangeable fentes

Woist-level rungs finder

Magnifler

Closs-up lens

Bellows

Comera holder

Flosh unit bracket

Electronic flash

Microphoto adaptor

